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$$\begin{array}{r} 282 \\ +210 \\ \hline \end{array}$$

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Answer: 492

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Answer: 310

Grade 3

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Answer: 830

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Answer: 432

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Answer: 598

Grade 3

$$\begin{array}{r} 148 \\ +501 \\ \hline \end{array}$$

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$$\begin{array}{r} 33 \\ -\ 15 \\ \hline \end{array}$$

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Answer: 18

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Answer: 35

Grade 3

$$\begin{array}{r} 19 \\ +\ 33 \\ \hline \end{array}$$

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Answer: 52

Grade 3

$$\begin{array}{r} 86 \\ -\ \ 7 \\ \hline \end{array}$$

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Answer: 79

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$$\begin{array}{r} 30 \\ -\ 17 \\ \hline \end{array}$$

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Answer: 13

Grade 3

$$\begin{array}{r} 65 \\ -\ 19 \\ \hline \end{array}$$

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Answer: 46

Grade 3

$$700+40+3=$$

© 2000 Nintendo

Answer: 743

Grade 3

$$5{,}000+600+30+2=$$

© 2000 Nintendo

Answer: 5,632

Grade 3

$$\begin{array}{r} 703 \\ +\ 82 \\ \hline \end{array}$$

© 2000 Nintendo

Answer: 785

Practice Makes Perfect

✎ Add and subtract.

A.

tens	ones
1	
4	3
+4	8
9	1

tens	ones
2	8
+4	3

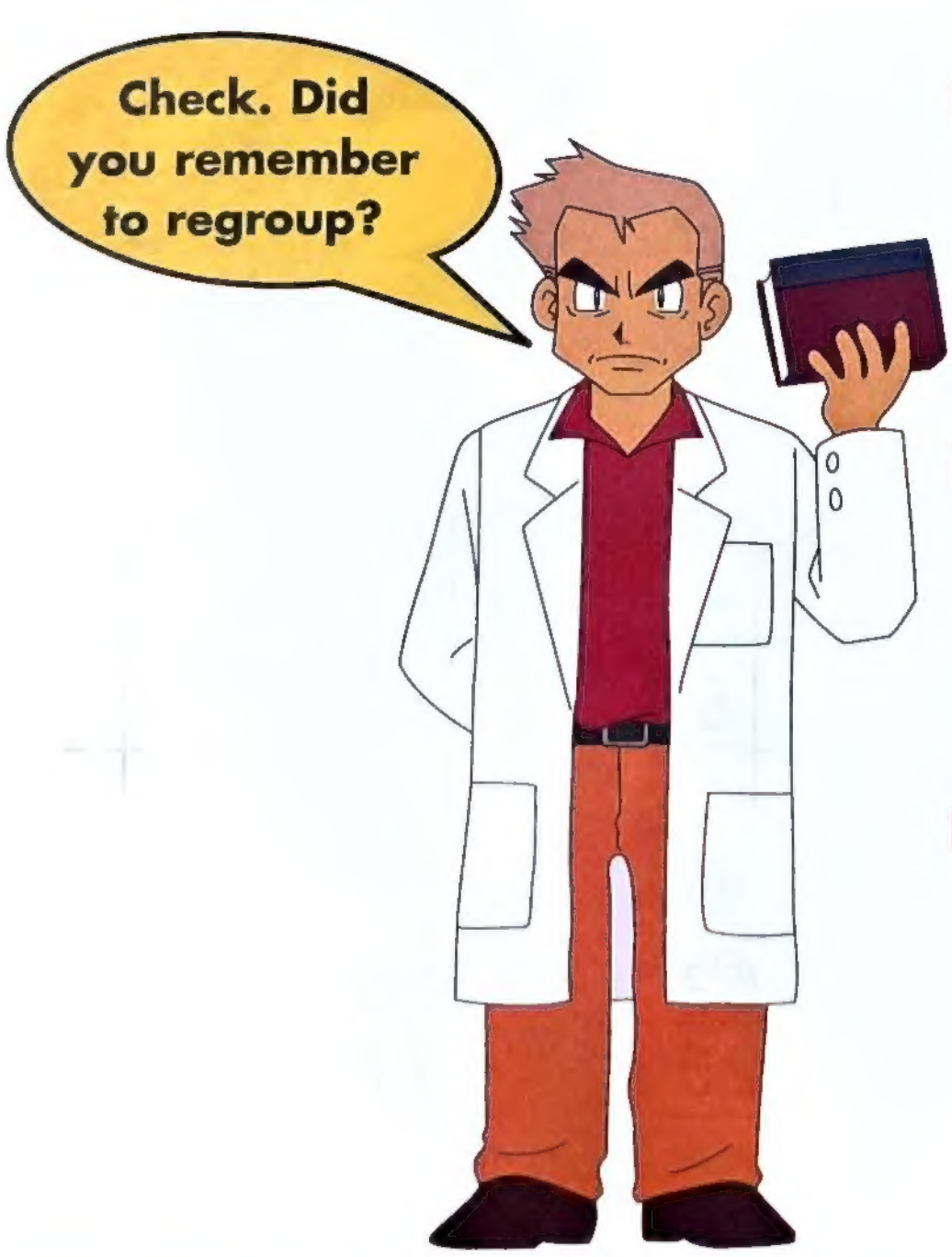
tens	ones
2	7
+3	4

tens	ones
1	6
+7	8

tens	ones
5	7
+3	6

B.

62	29	37	59	17
+ 19	+ 6	+ 49	+ 28	+ 18



C.

48	28
+ 4	+ 55

D.

15	74
+ 29	+ 9

E.

9	19
+ 41	+ 33

*SKILL: adding with regrouping (carrying)

Subtraction with Regrouping

When you cannot subtract the bottom number from the top number, this is what you must do:

Subtract.
62
− 14

Regroup.	
tens	ones
5	12
6	2
− 1	4

Subtract the ones first.	
tens	ones
5	12
6	2
− 1	4
	8

Subtract the tens next.	
tens	ones
5	12
6	2
− 1	4
4	8

Subtract.

A.

tens	ones
7	12
8	2
−	6
7	6

tens	ones
7	1
−	2

tens	ones
8	0
−	6

tens	ones
6	5
−	8

tens	ones
5	1
−	3

B.

65	86	53	30	81
− 18	− 7	− 25	− 17	− 34

*SKILL: subtracting with regrouping (borrowing)

Regrouping Practice

Regroup. Subtract the ones. Subtract the tens.

A.

3 14 4̸4̸ − 18 26	51 − 39	56 − 8	94 − 17

B.

23 − 17	72 − 26	87 − 68	42 − 34

C.

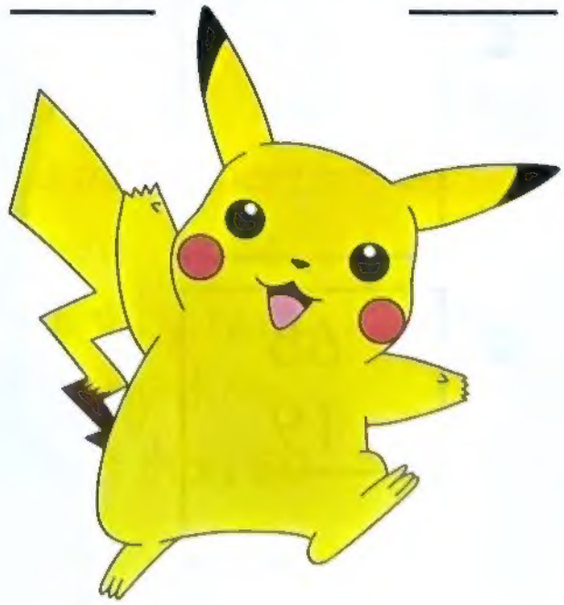
42 − 5	35 − 26	82 − 59	60 − 41

D.

97 − 59	75 − 6	91 − 46	62 − 58

E.

60 − 29	78 − 19



*SKILL: subtracting with regrouping (borrowing)

Subtraction Check

Addition can be a way of checking your answer to a subtraction problem.

Subtract.	Add.	Check.
$\overset{5\,12}{\not{6}\,2} - 48 = 14$	$48 + 14 = 62$	$62 - 48 = 14$ and $48 + 14 = 62$

Team Rocket's on the loose! You can stop them. Add or subtract. Then draw a line from each subtraction problem to its matching addition check. Trap Team Rocket behind the lines.

A. $96 - 59$

B. $33 - 15$

C. $70 - 44$

D. $65 - 19$

E. $15 + 18$

F. $46 + 19$

G. $59 + 37$

H. $26 + 44$

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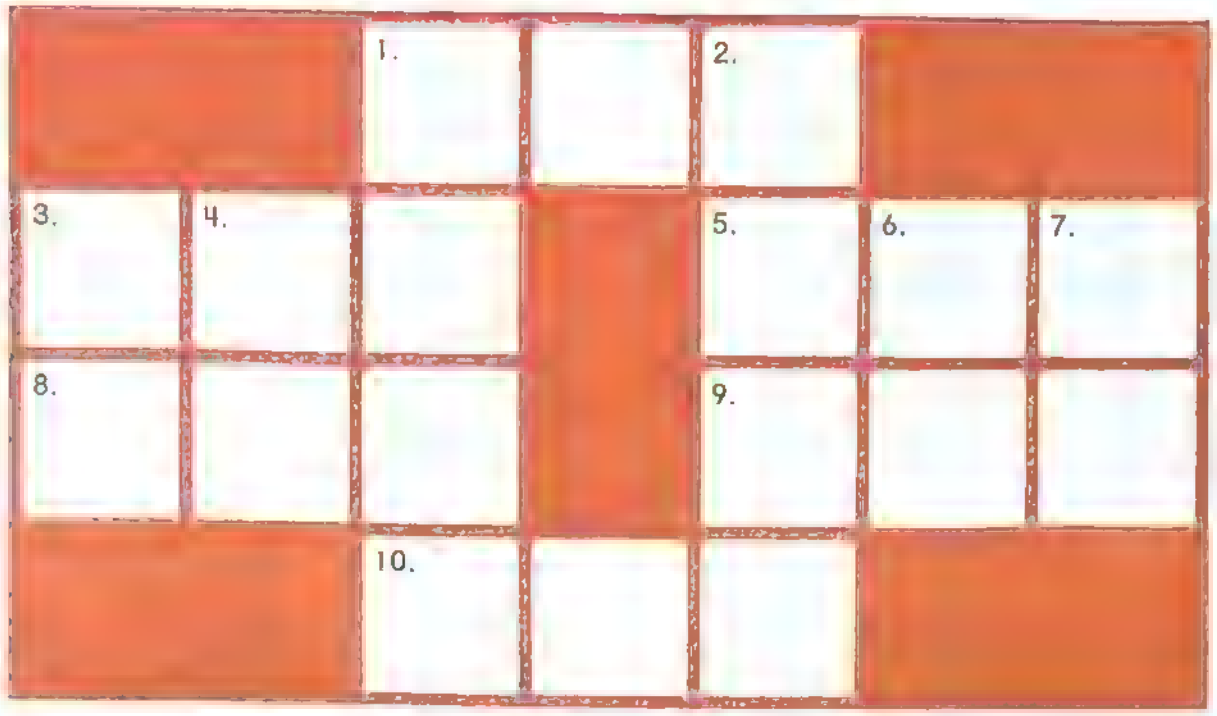
*SKILL: using addition to check answers in subtraction

A Puzzling Problem

✎ Fill in the blanks of the puzzle with the correct answers.



ACROSS CLUES

1. 300 + 60 + 5
3. 2 hundreds, 1 ten, 8 ones
5. 300 + 70 + 7
8. 261 backwards
9. 400 + 30 + 1
10. 10 less than 580

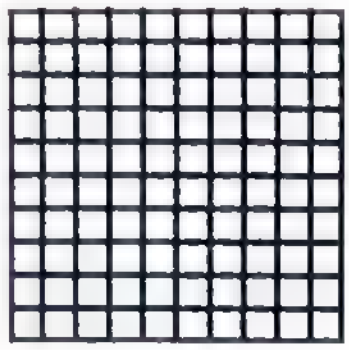
DOWN CLUES

1. 3000 + 800 + 20 + 5
2. 10 more than 5,330
3. 2 tens, 1 one
4. count by twos: 12, 14, ?
6. seventy-three
7. 9 less than 80

*SKILL: using place value to complete a puzzle

Ones, Tens, Hundreds

This square has 100 blocks. This bar has 10 blocks.



One block. → □

Look at these squares, bars, and blocks.
Write the number they show.

hundreds tens ones

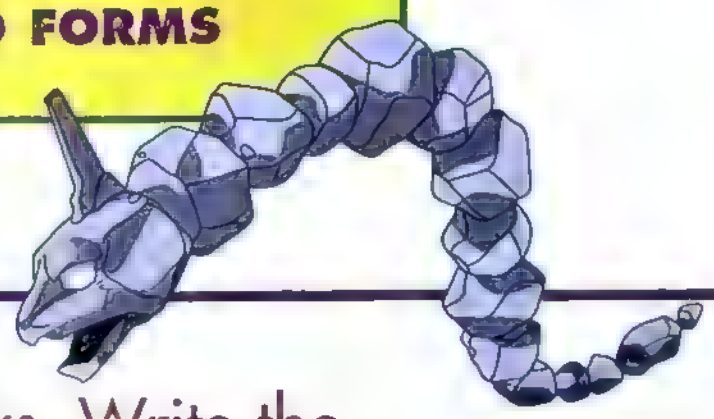
= hundreds tens ones

3 2 7

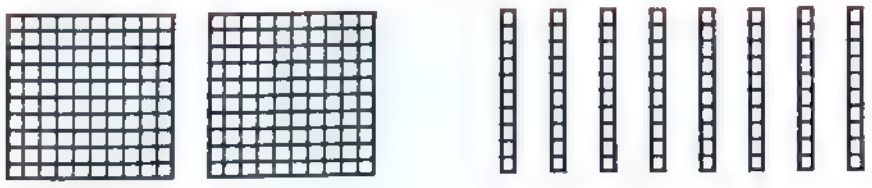
3 hundreds + 2 tens + 7 ones = 327

300 + 20 + 7 = 327

These are called EXPANDED FORMS



✎ Look at the squares, bars, and blocks. Write the number they show. Then write the expanded form.



□ = □ □ □

____ hundreds + ____ tens + ____ ones = 281

____ + ____ + ____ = 281

*SKILL: understanding place value through the hundreds

Expanded Forms

Pidgeot have great flying ability. They can fly super-fast and super-high.

Ash spotted this Pidgeot flying **3,482** feet in the air.

Ash wrote the number in expanded form:

3 Thousand		4 Hundred		Eighty		Two
3,000	+	400	+	80	+	2

Rewrite each number in regular form.

1. 7,000 + 800 + 0 + 5 = 7,805
2. 3,000 + 600 + 40 + 2 = _____
3. 5,000 + 0 + 80 + 0 = _____
4. 9,000 + 300 + 70 + 7 = _____
5. 1,000 + 400 + 50 + 1 = _____

Rewrite each number in expanded form.

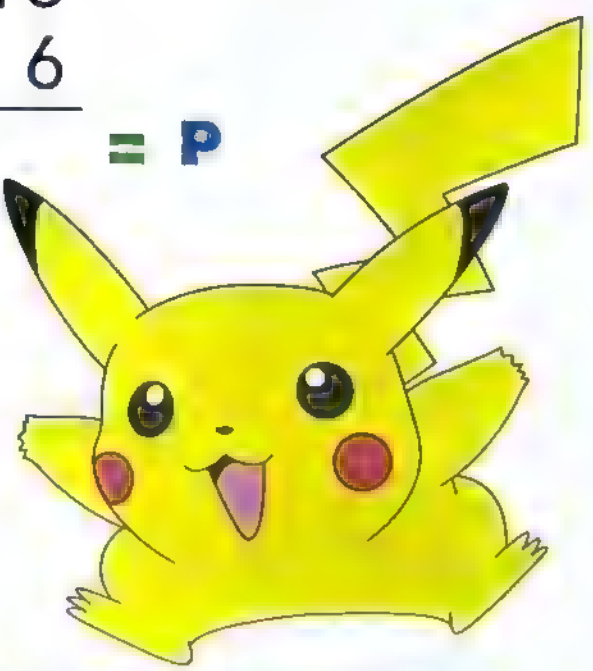
6. 605 600 + 0 + 5
7. 847 _____
8. 5,632 _____
9. 2,093 _____
10. 7,180 _____

Addition and Subtraction Facts

Ash and Pikachu are good friends.
Add and subtract and use your answers to solve the riddle.

6 + 7 = **W**	9 + 5 = **T**	7 + 8 = **E**	8 + 2 = **A**
4 + 8 = **S**	9 + 9 = **I**	5 + 6 = **H**	4 + 2 = **K**
11 − 7 = **N**	10 − 2 = **O**	13 − 8 = **G**	7 − 4 = **R**
14 − 7 = **C**	5 − 3 = **X**	15 − 6 = **P**	

What did Ash say the first time he met Pikachu?



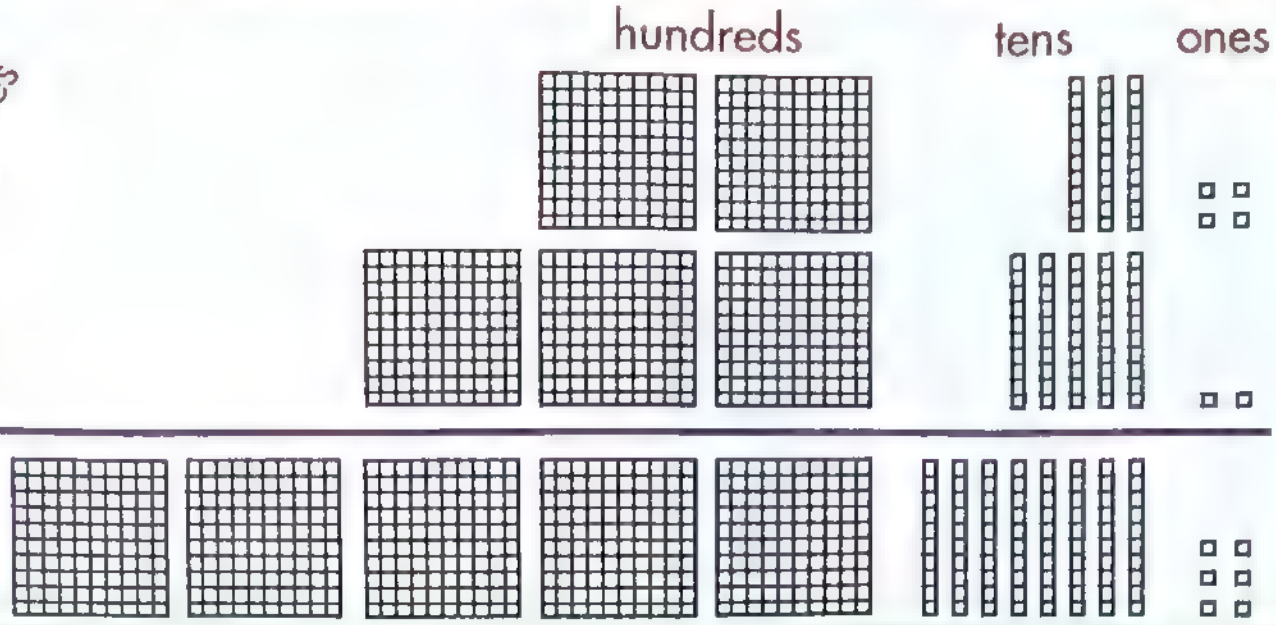
18	14	13	10	12	10						
12	11	8	7	6	18	4	5				
15	2	9	15	3	18	15	4	7	15	!	

*SKILLS: solving subtraction problems; completing a code

Adding 3-Digit Numbers

First add the ones. Then add the tens. Then add the hundreds.

hundreds	tens	ones
2	3	4
+ 3	5	2
5	8	6



Find the answers. Color the answers that are greater than 600 and less than 800. Follow the path to Dugtrio.

1.	364 + 432 796	282 + 210	144 + 531	413 + 214	344 + 424
2.	535 + 232	435 + 351	703 + 82	293 + 305	275 + 412
3.	121 215 + 242	212 43 + 331	354 102 + 523	407 81 + 210	101 423 + 254

Adding Without Regrouping

Brock explored a Rock Tunnel, looking for Pokémon. He walked 734 feet and found a Geodude. Then he walked 123 feet more and found a Golbat. How far into the tunnel did Brock go?

Add the ones.	Add the tens.	Add the hundreds.
734 + 123 7	734 + 123 57	734 + 123 857

Add.

1.	602 + 137	533 + 241	380 + 519	416 + 232
2.	161 + 302	245 + 143	521 + 355	284 + 314
3.	713 + 242	306 + 423	480 + 118	517 + 242
4.	148 + 501	121 + 837	603 + 245	352 + 104

*SKILL: adding without regrouping (to 3-digit addends)

Adding with Regrouping

Ash got lost on the way to Vermilion City. He walked 748 yards. Then he saw a Mankey walking on the trail. Ash followed the Mankey for 575 yards until he reached the city gates. How many yards did Ash walk in all?

Add the ones.	Regroup and add the tens.	Regroup and add the hundreds.
$\overset{1}{}$ 748 +575 3	$\overset{1}{}\ \overset{1}{}$ 748 +575 23	$\overset{1}{}$ 748 +575 1323

Add.

1.	453 + 78	621 + 84	309 + 53	782 + 48
2.	264 + 357	408 + 246	523 + 797	83 + 246
3.	860 + 153	237 + 263	415 + 608	596 + 706
4.	353 + 988	717 + 465	809 + 794	243 + 877

Regrouping Practice

What's more fun than catching Exeggutor, the three-headed Pokémon?

Adding 3-digit numbers, of course!

✎ Add.

1.	143 + 294 437	341 + 539	715 + 178	544 + 285	243 + 327	482 + 435
2.	253 + 469	429 + 167	398 + 243	611 + 97	526 + 345	192 + 557
3.	358 + 477	292 + 687	124 + 585	457 + 149	853 + 266	195 + 748
4.	139 243 + 361	272 411 + 155	687 91 + 207	522 173 + 244	353 402 + 164	267 143 + 421

*SKILL: adding 3-digit numbers with regrouping (carrying)

Number Search

Meowth has hidden the answers to these problems in the grid below. Can you outsmart Meowth? Add and circle your answers in the grid. Some are across and some are down.

1. $\begin{array}{r} 493 \\ +\ 86 \\ \hline \end{array}$ $\begin{array}{r} 617 \\ +\ 257 \\ \hline \end{array}$ $\begin{array}{r} 708 \\ +\ 824 \\ \hline \end{array}$ $\begin{array}{r} 536 \\ +\ 194 \\ \hline \end{array}$

2. $\begin{array}{r} 873 \\ +\ 775 \\ \hline \end{array}$ $\begin{array}{r} 419 \\ +\ 182 \\ \hline \end{array}$ $\begin{array}{r} 951 \\ +\ 376 \\ \hline \end{array}$ $\begin{array}{r} 648 \\ +\ 959 \\ \hline \end{array}$

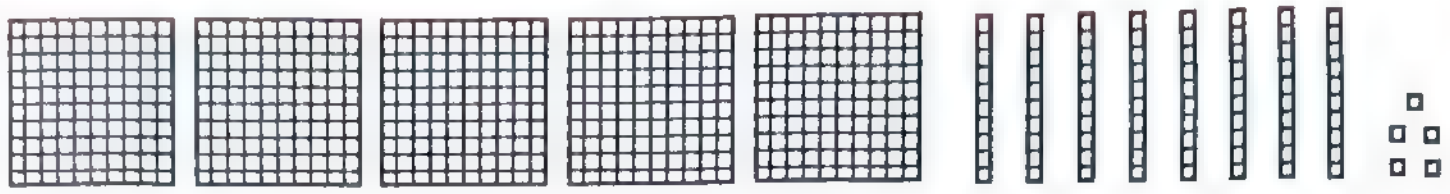
3. $\begin{array}{r} 673 \\ +\ 807 \\ \hline \end{array}$ $\begin{array}{r} 298 \\ +\ 218 \\ \hline \end{array}$ $\begin{array}{r} 846 \\ +\ 97 \\ \hline \end{array}$ $\begin{array}{r} 437 \\ +\ 325 \\ \hline \end{array}$

5	7	9	8	5	1	9	3
1	3	2	7	1	6	4	8
6	0	1	4	8	0	3	5
8	1	5	3	2	7	6	2

Subtracting 3-Digit Numbers

Subtract the ones. Subtract the tens. Subtract the hundreds.

$$\begin{array}{r} 585 \\ -\ 314 \\ \hline 271 \end{array}$$



Subtract.

1.

893	459	378	926	748
− 272	− 325	− 153	− 114	− 526
621				

Ash must choose Bulbasaur, Squirtle, or Charmander to use in battle with another trainer. Who will he choose? Subtract. Write the answer in the matching box below.

398 − 27	894 − 562	276 − 130	382 − 341	393 − 122
A 371	B	C	E	H
347 − 143	47 − 24	507 − 206	83 − 61	161 − 132
I	L	O	R	S
632 − 202	507 − 305	785 − 372	967 − 456	
T	U	Q	Y	

29	413	202	204	22	430	23	41

204

146	271	301	301	29	41

511	301	202

!

*SKILL: subtracting 3-digit numbers

Subtracting

Add and subtract.

Pokémon come in all sizes.
Rhydon weighs 265 pounds.
Kingler weighs 132 pounds.

How much more than Kingler does Rhydon weigh?

Subtract the ones.	Subtract the tens.	Subtract the hundreds.
265 − 132 3	265 − 132 33	265 − 132 133

Subtract.

1.	309 − 106 203	987 − 234	736 − 115	555 − 123
2.	873 − 242	640 − 330	958 − 726	475 − 233
3.	769 − 703	583 − 381	357 − 231	984 − 530
4.	895 − 354	461 − 230	385 − 62	659 − 203

*SKILL: subtracting without regrouping (borrowing)

Big-Time Subtraction

When you subtract one 3-digit number from another you will often have to regroup two times. First, regroup from the tens place, and then from the hundreds place. Here is how to do it:

Subtract.

$$\begin{array}{r} 334 \\ -\ 176 \\ \hline \end{array}$$

Step 1

$$\begin{array}{r} {\scriptstyle 2\ 14} \\ 3\not{3}\not{4} \\ -\ 1\ 7\ 6 \\ \hline 8 \end{array}$$

Since 6 is larger than 4, you have to regroup 1 ten as 10 ones. That leaves 2 tens and 14 ones. 6 from 14 is 8.

Step 2

$$\begin{array}{r} {\scriptstyle 2\ 12\ 14} \\ 3\not{3}\not{4} \\ -\ 1\ 7\ 6 \\ \hline 1\ 5\ 8 \end{array}$$

Since 7 is larger than 2, regroup 1 hundred as 10 tens. 7 tens from 12 tens is 5 tens.

✎ Subtract.

1. $\begin{array}{r} {\scriptstyle 4\ 16\ 14} \\ 5\not{7}\not{4} \\ -\ 288 \\ \hline 286 \end{array}$ $\begin{array}{r} 721 \\ -\ 199 \\ \hline \end{array}$ $\begin{array}{r} 643 \\ -\ 365 \\ \hline \end{array}$ $\begin{array}{r} 728 \\ -\ 429 \\ \hline \end{array}$

2. $\begin{array}{r} 622 \\ -\ 394 \\ \hline \end{array}$ $\begin{array}{r} 485 \\ -\ 276 \\ \hline \end{array}$ $\begin{array}{r} 862 \\ -\ 387 \\ \hline \end{array}$ $\begin{array}{r} 927 \\ -\ 658 \\ \hline \end{array}$ $\begin{array}{r} 823 \\ -\ 645 \\ \hline \end{array}$ $\begin{array}{r} 454 \\ -\ 268 \\ \hline \end{array}$

3. $\begin{array}{r} 281 \\ -\ 194 \\ \hline \end{array}$ $\begin{array}{r} 793 \\ -\ 427 \\ \hline \end{array}$ $\begin{array}{r} 536 \\ -\ 349 \\ \hline \end{array}$ $\begin{array}{r} 618 \\ -\ 297 \\ \hline \end{array}$ $\begin{array}{r} 441 \\ -\ 371 \\ \hline \end{array}$ $\begin{array}{r} 968 \\ -\ 579 \\ \hline \end{array}$

*SKILL: subtracting 3-digit numbers with regrouping (borrowing)

Subtracting with Regrouping

Dragonite is another big Pokémon. It weighs 463 pounds. Tauros weighs 195 pounds. How much more than Tauros does Dragonite weigh?

Regroup 1 ten.
Subtract ones.

$$\begin{array}{r} {\scriptstyle 5\ 13} \\ 4\,\not{6}\,\not{3} \\ -\,1\,9\,5 \\ \hline 8 \end{array}$$

Regroup 1 hundred.
Subtract tens.

$$\begin{array}{r} {\scriptstyle 3\ 15} \\ \not{4}\,\not{6}\,3 \\ -\,1\,9\,5 \\ \hline 6\,8 \end{array}$$

Subtract hundreds.

$$\begin{array}{r} {\scriptstyle 3} \\ \not{4}\,6\,3 \\ -\,1\,9\,5 \\ \hline 2\,6\,8 \end{array}$$

Subtract.

1. $\begin{array}{r} {\scriptstyle 6\,11\,14} \\ \not{7}\,\not{2}\not{1}4 \\ -\,5\,4\,9 \\ \hline 1\,7\,5 \end{array}$ $\begin{array}{r} 438 \\ -\,271 \\ \hline \end{array}$ $\begin{array}{r} 872 \\ -\,143 \\ \hline \end{array}$ $\begin{array}{r} 615 \\ -\,217 \\ \hline \end{array}$

2. $\begin{array}{r} 554 \\ -\,316 \\ \hline \end{array}$ $\begin{array}{r} 392 \\ -\,285 \\ \hline \end{array}$ $\begin{array}{r} 941 \\ -\,378 \\ \hline \end{array}$ $\begin{array}{r} 435 \\ -\,129 \\ \hline \end{array}$

3. $\begin{array}{r} 811 \\ -\,533 \\ \hline \end{array}$ $\begin{array}{r} 782 \\ -\,351 \\ \hline \end{array}$ $\begin{array}{r} 316 \\ -\,179 \\ \hline \end{array}$ $\begin{array}{r} 517 \\ -\,128 \\ \hline \end{array}$

*SKILL: subtracting 3-digit numbers with regrouping (borrowing)

Subtracting Across Zero

Alakazam weighs 106 pounds.
Slowpoke weighs 79 pounds.
How much more than Slowpoke does Alakazam weigh?

$$\begin{array}{r} {\scriptstyle 9\ 16} \\ 1\not{0}\not{6} \\ -\ 79 \\ \hline 27 \end{array}$$

To subtract 9 from 6, you must regroup.
But you cannot take 1 ten from 0 tens.
You must regroup by taking 1 ten from 10 tens.
That leaves 9 tens. Now you can subtract.

✎ Subtract.

1.	$\begin{array}{r} {\scriptstyle 1\ 10} \\ 2\not{0}7 \\ -\ 83 \\ \hline 124 \end{array}$	$\begin{array}{r} 408 \\ -\ 19 \\ \hline \end{array}$	$\begin{array}{r} 700 \\ -496 \\ \hline \end{array}$	$\begin{array}{r} 501 \\ -323 \\ \hline \end{array}$
2.	$\begin{array}{r} 306 \\ -143 \\ \hline \end{array}$	$\begin{array}{r} 500 \\ -271 \\ \hline \end{array}$	$\begin{array}{r} 606 \\ -355 \\ \hline \end{array}$	$\begin{array}{r} 803 \\ -707 \\ \hline \end{array}$
3.	$\begin{array}{r} 400 \\ -187 \\ \hline \end{array}$	$\begin{array}{r} 909 \\ -263 \\ \hline \end{array}$	$\begin{array}{r} 502 \\ -347 \\ \hline \end{array}$	$\begin{array}{r} 202 \\ -173 \\ \hline \end{array}$

*SKILL: subtracting 2 and 3-digit numbers with regrouping (borrowing) across zero

Estimating

It is sometimes useful to estimate in addition and subtraction by rounding the numbers.

The sum of 12 + 21 is about the same as 10 + 20.

$$10 + 20 = 30$$

$$\begin{array}{r} 12 \longrightarrow 10 \\ +\ 21 \longrightarrow +\ 20 \\ \hline 33 \qquad\quad 30 \end{array}$$

Subtracting 17 from 48 is about the same as 50 - 20.

$$50 - 20 = 30$$

$$\begin{array}{r} 48 \longrightarrow 50 \\ -\ 17 \longrightarrow -\ 20 \\ \hline 31 \qquad\quad 30 \end{array}$$

✎ Estimate these:

1. 22 + 27 is about the same as 20 + 30 = 50
2. 74 − 31 is about the same as _____ = _____
3. 33 + 46 is about the same as _____ = _____
4. 81 − 29 is about the same as _____ = _____
5. 57 − 23 is about the same as _____ = _____

*SKILL: using estimation to solve addition and subtraction problems

Rounding to Nearest 10 and 100

Lapras weighs 485 pounds. Round that number to the nearest 10 and the nearest 100.

To round a number to the nearest 10:

485 → 490

1. If the ones digit is 5 or greater, round **up** to the next ten.
2. If the ones digit is less than 5, round **down**.

To round a number to the nearest 100:

485 → 500

1. If the tens digit is 5 or greater, round **up** to the next hundred.
2. If the tens digit is less than 5, round **down**.

Round to the nearest 10:

1. 47 → **50**
2. 35 → _____
3. 721 → _____
81 → _____
438 → _____
967 → _____

Round to the nearest 100:

4. 438 → _____
5. 803 → _____
6. 2765 → _____
670 → _____
146 → _____
4203 → _____

*SKILL: rounding numbers to the nearest ten and hundred

Estimating

Professor Oak counted the wild Pokémon around Pallet Town. He saw 41 Rattata and 87 Pidgeotto. About how many Pokémon did he see in all?

_____

Round each number to the nearest 10 and estimate the answer. Then add or subtract to find the correct answer.

		Estimate		Estimate
1.	41 + 87 = 128	40 + 90 = 130	95 − 47 =	_____
2.	112 − 78 =	_____	256 + 393 =	_____
3.	614 + 755 =	_____	929 − 351 =	_____
4.	592 − 194 =	_____	318 + 266 =	_____
5.	464 + 59 =	_____	825 − 495 =	_____

*SKILL: using estimation to solve addition and subtraction problems

Times Two

Ash went searching for Pokémon in the Safari Zone. Ash counted 9 pairs of Pokémon. How many Pokémon did Ash see in all?

2 4 6 8 10 12 14 16 18

9 twos are 18

9 x 2 = 18

✎ Multiply to find how many.

1. ○ ○ ○ ○

4 twos are 8

4 x 2 = 8

○ ○ ○ ○ ○

____ twos are ____

____ x 2 = ____

2. ○ ○ ○
○ ○ ○

____ twos are ____

____ x 2 = ____

○ ○ ○ ○ ○ ○ ○
○ ○ ○ ○ ○ ○ ○

____ twos are ____

____ x 2 = ____

3. 6 x 2 = _____

2 x 2 = _____

4. 9 x 2 = _____

8 x 2 = _____

Show Multiplication Another Way

Misty saw 3 Goldeen in the river. Then she walked to the lake and saw 5 times as many Goldeen there. How many Goldeen were in the lake?

3 x 5 = 15
factor factor product

Here's another way to show multiplication!

$$\begin{array}{r} 3 \\ \times\ 5 \\ \hline 15 \end{array}$$

factor
factor
product

	Rewrite each problem the other way and solve.			
1.	$7 \times 2 = 14$	$\begin{array}{r} 2 \\ \times\ 7 \\ \hline \end{array}$	$5 \times 5 =$	
2.	$8 \times 5 =$		$3 \times 2 =$	
3.	$\begin{array}{r} 2 \\ \times\ 6 \\ \hline \end{array}$		$\begin{array}{r} 5 \\ \times\ 4 \\ \hline \end{array}$	
4.	$\begin{array}{r} 5 \\ \times\ 9 \\ \hline \end{array}$		$\begin{array}{r} 2 \\ \times\ 8 \\ \hline \end{array}$	

Times Three

Nurse Joy and Chansey take care of many Pokémon at the Pokémon Center. There are 4 rooms in the center.

Each room has 3 Pokémon.
How many Pokémon are there in all?

---

4 threes is 12

$4 \times 3 = 12$

$$\begin{array}{r} 3 \\ \times\ 4 \\ \hline 12 \end{array}$$

Multiply to find how many.

1. 3 x 3 = 9
2. 5 x 3 = _____
3. 1 x 3 = _____
4. 8 x 3 = _____
5. 4 x 3 = _____

6. $\begin{array}{r} 3 \\ \times\ 2 \\ \hline \end{array}$

7. $\begin{array}{r} 3 \\ \times\ 7 \\ \hline \end{array}$

8. $\begin{array}{r} 3 \\ \times\ 6 \\ \hline \end{array}$

9. $\begin{array}{r} 3 \\ \times\ 9 \\ \hline \end{array}$

*SKILL: multiplying by three

Practice

Beedrill is a Bug Pokémon with a powerful poisonous stinger.

✎ Add, subtract, or multiply each problem.
Use your answers to solve the riddle.

943 + 287 = **B**	5 x 5 = **I**	753 − 608 = **O**	2 x 7 = **C**
895 + 423 = **A**	307 − 248 = **E**	3 x 8 = **G**	561 + 354 = **T**
5 x 9 = **Y**	614 + 338 = **N**	747 − 258 = **S**	
470 + 563 = **D**	2 x 3 = **L**		

What is the best way to call Beedrill?

1230	45

6	145	952	24

1033	25	489	915	1318	952	14	59

*SKILL: solving problems with addition, subtraction, and multiplication

Times One

Ash met some new trainers at the Pokémon Academy.

5 trainers each had 1 Poké Ball.

$5 \times 1 = 5$

1 experienced trainer had 5 Poké Balls.

$1 \times 5 = 5$

Any number times one stays the same. One times any number is that number.

Multiply. Shade the boxes with the answers less than 8 to find a path to a Poké Ball just for you.

Start.

1.

6 x 1 = 6	5 x 3 =	2 x 6 =	9 x 1 =	3 x 4 =

2.

1 x 5 =	7 x 1 =	4 x 2 =	5 x 6 =

3.

8 x 1 =	3 x 6 =	2 x 3 =	7 x 4 =	2 x 5 =

4.

4 x 5 =	3 x 1 =	4 x 1 =	1 x 1 =

*SKILL: multiplying by one

Times Zero

Ash found four Zubat on an island, but none of the Zubat were awake.

Four zeros = 0

4 x 0 = 0

0 x 4 = 0

Any number times zero is zero.

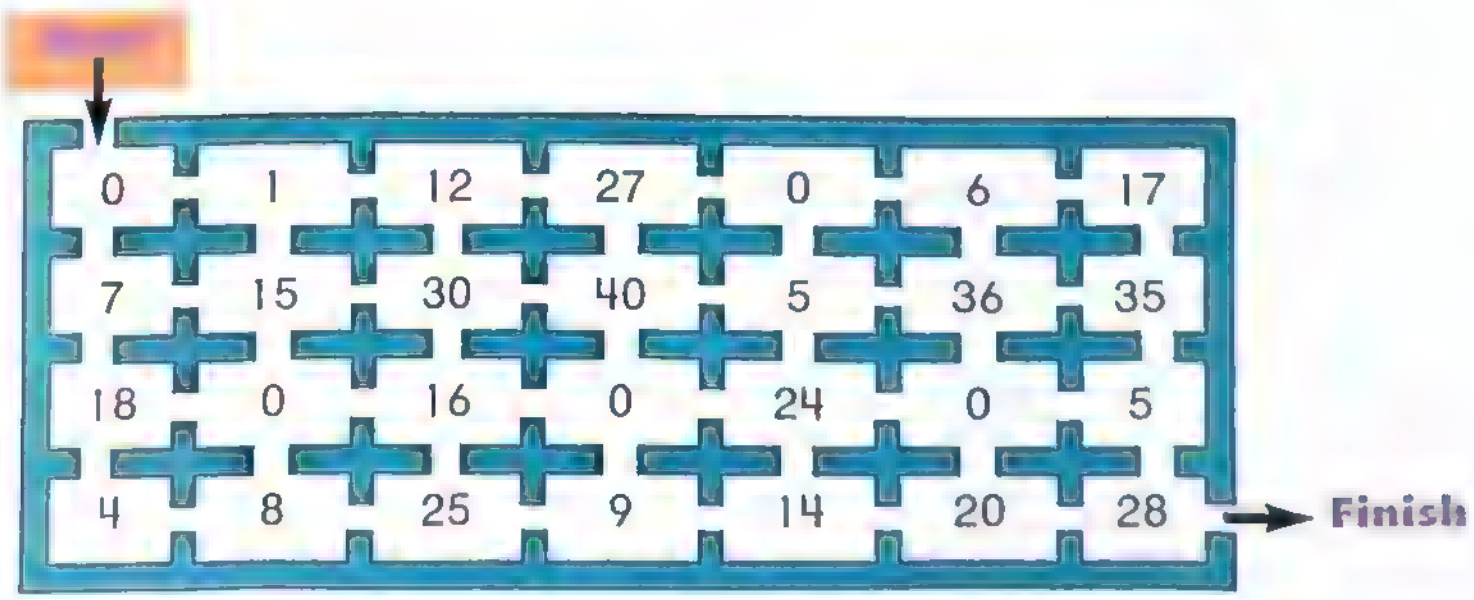
Multiply. Circle your answers as you go to find a way through the maze.

1. 5 x 0 = 0 1 x 7 = ____ 3 x 6 = ____ 0 x 8 = ____

2. 4 x 2 = ____ 5 x 5 = ____ 9 x 1 = ____ 7 x 0 = ____

3.
8	3	0	6
x 5	x 9	x 4	x 1
____	____	____	____

4.
9	3	1	4
x 4	x 0	x 5	x 7
____	____	____	____



*SKILL: multiplying by zero

Times Three and Times Four

$3 + 3 + 3 + 3 = 12$ and $4 \times 3 = 12$

Watch Rattata leap by 3's.

$$\begin{array}{r} 3 \\ \times\, 4 \\ \hline 12 \end{array}$$

3 x 0	3 x 1	3 x 2	3 x 3	3 x 4	3 x 5	3 x 6	3 x 7	3 x 8	3 x 9	3 x 10
0	3	6	9	12	15	18	21	24	27	30

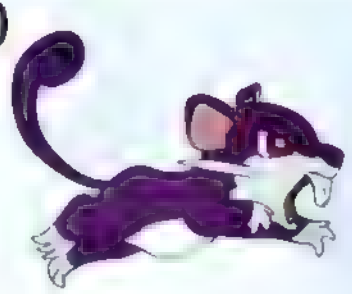
Try these.

1. $\begin{array}{r} 3 \\ \times\, 2 \\ \hline \end{array}$ $\begin{array}{r} 3 \\ \times\, 8 \\ \hline \end{array}$ $\begin{array}{r} 3 \\ \times\, 3 \\ \hline \end{array}$ $\begin{array}{r} 3 \\ \times\, 6 \\ \hline \end{array}$ $\begin{array}{r} 3 \\ \times\, 4 \\ \hline \end{array}$ $\begin{array}{r} 3 \\ \times\, 7 \\ \hline \end{array}$ $\begin{array}{r} 3 \\ \times\, 5 \\ \hline \end{array}$ $\begin{array}{r} 3 \\ \times\, 9 \\ \hline \end{array}$

Bright Ideas Here's how to check your "times 3" answers. If the digits add up to 3 or 6 or 9 or 12 or 15 or 18 the answer is OK.

$4 + 4 + 4 + 4 + 4 = 20$ and $5 \times 4 = 20$

Watch Rattata leap by 4's.



$$\begin{array}{r} 4 \\ \times\, 5 \\ \hline 20 \end{array}$$

4 x 0	4 x 1	4 x 2	4 x 3	4 x 4	4 x 5	4 x 6	4 x 7	4 x 8	4 x 9	4 x 10
0	4	8	12	16	20	24	28	32	36	40

Try these.

2. $\begin{array}{r} 4 \\ \times\, 8 \\ \hline \end{array}$ $\begin{array}{r} 4 \\ \times\, 2 \\ \hline \end{array}$ $\begin{array}{r} 4 \\ \times\, 5 \\ \hline \end{array}$ $\begin{array}{r} 4 \\ \times\, 7 \\ \hline \end{array}$ $\begin{array}{r} 4 \\ \times\, 6 \\ \hline \end{array}$ $\begin{array}{r} 4 \\ \times\, 3 \\ \hline \end{array}$ $\begin{array}{r} 4 \\ \times\, 4 \\ \hline \end{array}$ $\begin{array}{r} 4 \\ \times\, 9 \\ \hline \end{array}$

*SKILL: multiplying by three and four

Times Two and Times Five

You can think of multiplying as a fast way to add:

$2 + 2 + 2 + 2 = 8$ and $4 \times 2 = 8$

Watch Vulpix leap by 2's.

$$\begin{array}{r} 2 \\ \times\ 4 \\ \hline 8 \end{array}$$

2 x 0	2 x 1	2 x 2	2 x 3	2 x 4	2 x 5	2 x 6	2 x 7	2 x 8	2 x 9	2 x 10
0	2	4	6	8	10	12	14	16	18	20

Try these.

1.

$$\begin{array}{r} 2 \\ \times\ 5 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times\ 2 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times\ 7 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times\ 3 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times\ 4 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times\ 8 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times\ 6 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times\ 9 \\ \hline \end{array}$$

Bright Ideas When you multiply any number by 2, your answer will always have an even number in the ones place.

$5 + 5 + 5 = 15$ and $3 \times 5 = 15$

Now watch Vulpix leap by 5's.

$$\begin{array}{r} 5 \\ \times\ 3 \\ \hline 15 \end{array}$$

5 x 0	5 x 1	5 x 2	5 x 3	5 x 4	5 x 5	5 x 6	5 x 7	5 x 8	5 x 9	5 x 10
0	5	10	15	20	25	30	35	40	45	50

Multiply.

2.

$$\begin{array}{r} 5 \\ \times\ 5 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times\ 2 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times\ 8 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times\ 9 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times\ 7 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times\ 6 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times\ 3 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times\ 4 \\ \hline \end{array}$$

Practice

Doduo evolves into Dodrio.

✎ Multiply and use your answers to solve the riddle.

$$\begin{array}{r} 5 \\ \times\ 4 \\ \hline \end{array} = \mathbf{A} \qquad \begin{array}{r} 0 \\ \times\ 8 \\ \hline \end{array} = \mathbf{G}$$

$$\begin{array}{r} 9 \\ \times\ 3 \\ \hline \end{array} = \mathbf{D} \qquad \begin{array}{r} 2 \\ \times\ 6 \\ \hline \end{array} = \mathbf{I}$$

$$\begin{array}{r} 1 \\ \times\ 7 \\ \hline \end{array} = \mathbf{E} \qquad \begin{array}{r} 9 \\ \times\ 4 \\ \hline \end{array} = \mathbf{N}$$

$$\begin{array}{r} 8 \\ \times\ 5 \\ \hline \end{array} = \mathbf{W} \qquad \begin{array}{r} 3 \\ \times\ 6 \\ \hline \end{array} = \mathbf{O}$$

$$\begin{array}{r} 5 \\ \times\ 2 \\ \hline \end{array} = \mathbf{T} \qquad \begin{array}{r} 7 \\ \times\ 6 \\ \hline \end{array} = \mathbf{H}$$

Why did Doduo want to evolve into Dodrio?

12	10	40	20	36	10	7	27	10	18	0	7	10	20	42	7	20	27	!	

*SKILL: practicing multiplying

Answers

Page 1

A. 91, 71, 61, 94, 93
B. 81, 35, 86, 87, 35
C. 52, 83
D. 44, 83
E. 50, 52

Page 2

A. 76, 69, 74, 57, 48
B. 47, 79, 28, 13, 47

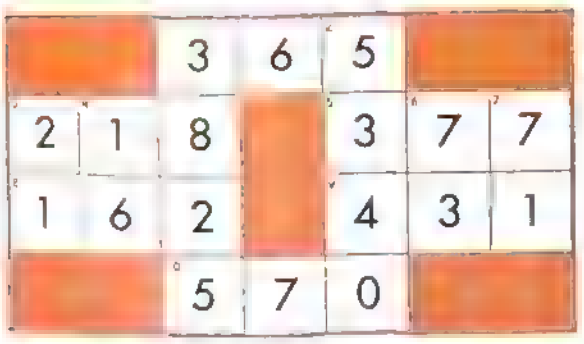
Page 3

A. 26, 12, 48, 77
B. 6, 46, 19, 8
C. 37, 9, 23, 19
D. 38, 69, 45, 4
E. 31, 59

Page 4

A. 37 **E.** 33
B. 18 **F.** 65
C. 26 **G.** 96
D. 46 **H.** 70
A-G, B-E,
C-H, D-F

Page 5



Page 6

281
2 hundreds, 8 tens, 1 one
200 + 80 + 1

Page 7

1. 7,805
2. 3,642
3. 5,080
4. 9,377
5. 1,451
6. 600 + 0 + 5
7. 800 + 40 + 7
8. 5,000 + 600 + 30 + 2
9. 2,000 + 0 + 90 + 3
10. 7,000 + 100 + 80 + 0

Page 8

W = 13
T = 14
E = 15
A = 10
S = 12
I = 18
H = 11
K = 6
N = 4
O = 8
G = 5
R = 3
C = 7
X = 2
P = 9

Answer: It was a shocking experience!

Page 9

1. 796, 492, 675, 627, 768
2. 767, 786, 785, 598, 687
3. 578, 586, 979, 698, 778

Page 10

1. 739, 774, 899, 648
2. 463, 388, 876, 598
3. 955, 729, 598, 759
4. 649, 958, 848, 456

Page 11

1. 531, 705, 362, 830
2. 621, 654, 1,320, 329
3. 1,013, 500, 1,023, 1,302
4. 1,341, 1,182, 1,603, 1,120

Page 12

1. 437, 880, 893, 829, 570, 917
2. 722, 596, 641, 708, 871, 749
3. 835, 979, 709, 606, 1, 119, 943
4. 743, 838, 985, 939, 919, 831

Page 13

1. 579, 874, 1,532, 730
2. 1,648, 601, 1,327, 1,607
3. 1,480, 516, 943, 762

Page 14

1. 621, 134, 225, 812, 222

A = 371
B = 332 **C** = 146
E = 41 **H** = 271
I = 204 **L** = 23
O = 301 **R** = 22
S = 29 **T** = 430
U = 202 **Q** = 413
Y = 511

Message: Squirtle, I choose you!

Page 15

1. 203, 753, 621, 432
2. 631, 310, 232, 242
3. 66, 202, 126, 454
4. 541, 231, 323, 456

Answers

Page 16

1. 286, 522, 278, 299
2. 228, 209, 475, 269, 178, 186
3. 87, 366, 187, 321, 70, 389

Page 17

1. 175, 167, 729, 398
2. 238, 107, 563, 306
3. 278, 431, 137, 389

Page 18

1. 124, 389, 204, 178
2. 163, 229, 251, 96
3. 213, 646, 155, 29

Page 19

1. 20 + 30 = 50
2. 70 – 30 = 40
3. 30 + 50 = 80
4. 80 – 30 = 50
5. 60 – 20 = 40

Page 20

1. 50, 80
2. 40, 440
3. 720, 970
4. 400, 700
5. 800, 100
6. 2,800, 4,200

Page 21

1. 40 + 90 = 130; 128
100 – 50 = 50; 48
2. 110 – 80 = 30; 34
260 + 390 = 650; 649
3. 610 + 760 = 1370; 1,369
930 – 350 = 580; 578
4. 590 – 190 = 400; 398
320 + 270 = 590; 584
5. 460 + 60 = 520; 523
830 – 500 = 330; 330

Page 22

1. 4, 8; 5, 10
2. 3, 6; 7, 14
3. 12, 4
4. 18, 16

Page 23

1.

2	5
x7	x5
14	25

2.

5	2
x8	x3
40	6

3. 6 x 2 = 12
5 x 4 = 20
4. 5 x 9 = 45
2 x 8 = 16

Page 24

1. 9
2. 15
3. 3
4. 24
5. 12
6. 6
7. 21
8. 18
9. 27

Page 25

B = 1,230
I = 25
O = 145
C = 14
A = 1,318
E = 59
G = 24
T = 915
Y = 45
N = 952
S = 489
D = 1,033
L = 6

Answer: By long distance.

Page 26

1. 6, 15, 12, 9, 12
2. 5, 7, 8, 30
3. 8, 18, 6, 28, 10
4. 20, 3, 4, 1

Page 27

1. 0, 7, 18, 0
2. 8, 25, 9, 0
3. 40, 27, 0, 6
4. 36, 0, 5, 28

Page 28

1. 6, 24, 9, 18, 12, 21, 15, 27
2. 32, 8, 20, 28, 24, 12, 16, 36

Page 29

1. 10, 4, 14, 6, 8, 16, 12, 18
2. 25, 10, 40, 45, 35, 30, 15, 20

Page 30

A = 20
G = 0
D = 27
I = 12
O = 18
N = 36
E = 7
W = 40
H = 42
T = 10

Answer: It wanted to get a head.

Grade 3

$$1 \times 3 =$$

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answer: 3

Grade 3

$$8 \times 3 =$$

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answer: 24

Grade 3

$$7 \times 2 =$$

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answer: 14

Grade 3

$$\begin{array}{r} 5 \\ \times\ 2 \\ \hline \end{array}$$

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answer: 10

Grade 3

$$\begin{array}{r} 3 \\ \times\ 4 \\ \hline \end{array}$$

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answer: 12

Grade 3

$$5 \times 0 =$$

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answer: 0

Grade 3

$$\begin{array}{r} 5 \\ \times\ 3 \\ \hline \end{array}$$

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answer: 15

Grade 3

$$\begin{array}{r} 9 \\ \times\ 5 \\ \hline \end{array}$$

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answer: 45

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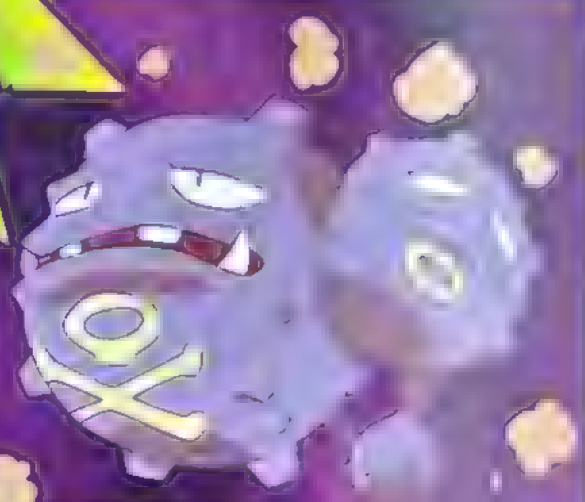

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#115
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Grade 3

408

+246

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answer: 654

Grade 3

353

+988

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answer: 1,341

Grade 3

243

+877

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answer: 1,120

Grade 3

522

173

+244

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answer: 939

Grade 3

139

243

+361

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answer: 743

Grade 3

544

+285

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answer: 829

Grade 3

281

−194

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answer: 87

Grade 3

438

−271

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answer: 167

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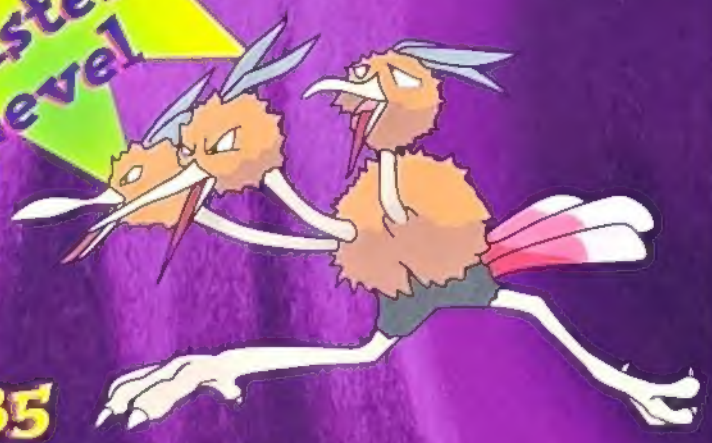

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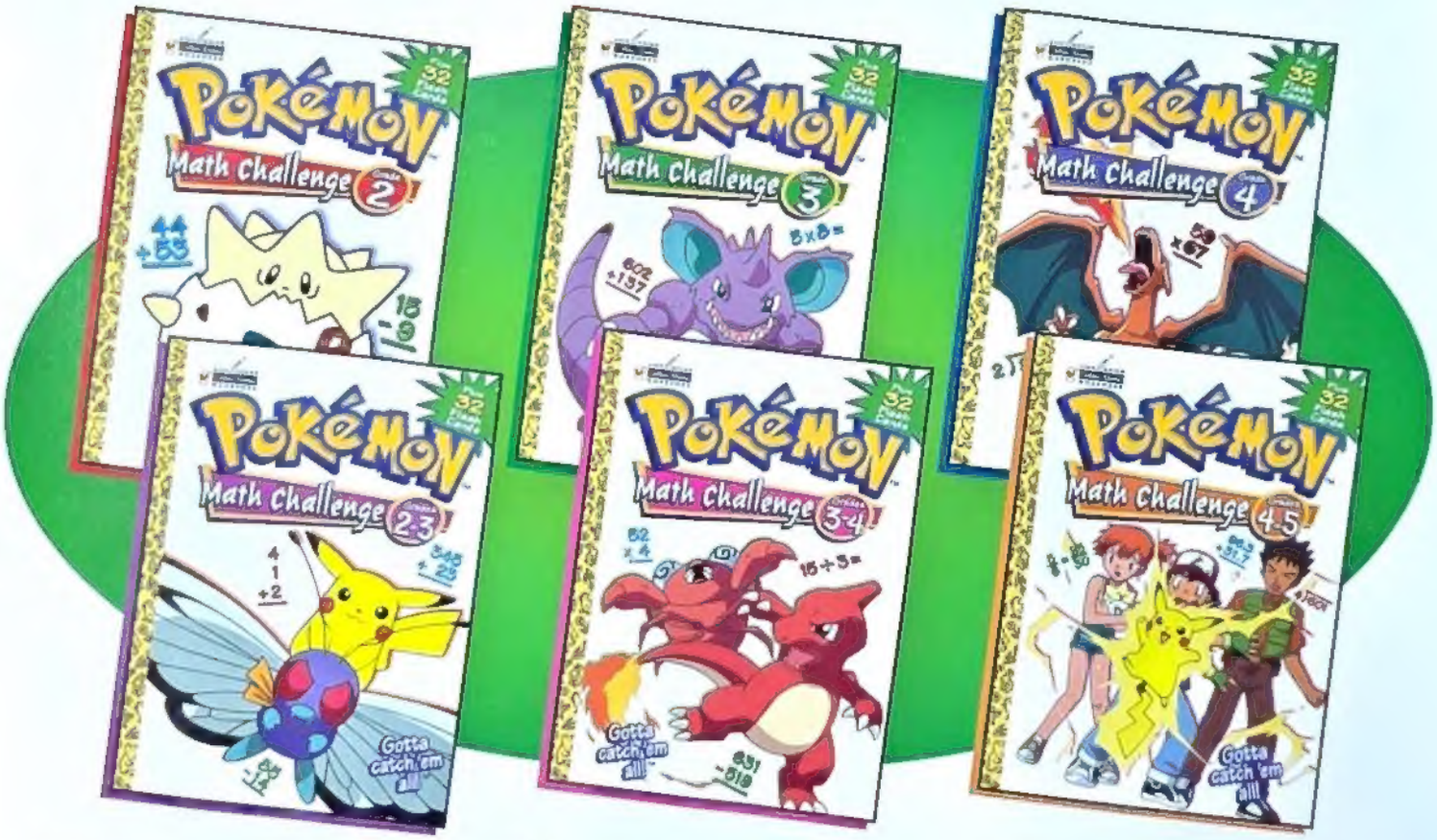

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